PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	10/057,554
Filing Date	January 23, 2002
First Named Inventor	Chow
Group Art Unit	~~1714~~ 1753
Examiner Name	~~Unassigned~~ Wood
Attorney Docket Number	10118.00012

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number: Number - Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
cdw		US-5,976,234 A	11/02/1999	Chow et al.	Entire document
		US- 5,522,893 A	06/04/1996	Chow et al.	Entire document
		US- 4,518,430 A	05/21/1985	Brown et al.	Entire document
		US- 5,962,028 A	10/05/1999	Constantz	Particularly columns 5 and 6
		US- 5,782,971 A	07/21/1998	Constantz et al.	Particularly columns 4 and 5
		US- 4,486,403 A	12/04/1984	Mechanic et al.	Particularly columns 3 and 4
cdw		US- 5,236,456 A	08/17/1993	O'Leary et al.	Entire document
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document: Country Code[3] - Number[4] - Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature	Wood	Date Considered	5/12/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 13

Complete if Known	
Application Number	10/057,554
Filing Date	January 23, 2002
First Named Inventor	Laurence C. Chow
Group Art Unit	~~1744~~ 1755
Examiner Name	JWOO
Attorney Docket Number	10118.00012

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number - Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JWW		US-3,679,360	7/25/72	Rubin et al.	
		US-3,787,900	1/29/74	McGee	
		US- 3,913,229	10/21/75	Driskell et al.	
		US- 3,929,971	12/30/75	Roy	
		US- 4,097,935	7/4/78	Jarcho	
		US- 4,497,075	2/5/85	Niwa et al.	
		US-4,512,038	4/23/85	Alexander et al.	
		US- 4,599,085	7/8/86	Riess et al.	
		US- 4,612,053	9/16/86	Brown et al.	
		US-4,655,777	4/7/87	Dunn et al.	
		US- 4,880,610	11/14/89	Constantz et al.	
		US- 4,897,250	1/30/99	Sumita	
		US- 4,963,151	10/16/90	Ducheyne et al.	
		US- 5,034,059	7/23/91	Constantz et al.	
		US- 5,037,639	8/6/91	Tung	
		US- 5,047,031	9/10/91	Constantz et al	
		US- 5,053,212	10/1/91	Constantz et al.	
		US- 5,092,888	3/3/92	Iwamoto et al.	
		US- 5,129,905	7/14/92	Constantz et al.	
		US- 5,181,930	1/26/93	Dumbleton et al.	
JWW		US- 5,192,330	3/9/93	Chang et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] - Number[4] - Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
JWW		Europe 041676 A1	3/13/91			
JWW		Europe WO 9503369	2/2/95			
JWW		Germany DE 4016135 A1	11/1999			

Examiner Signature	JWOO	Date Considered	5/17/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 13

Complete if Known	
Application Number	10/057,554
Filing Date	January 23, 2002
First Named Inventor	Laurence C. Chow
Group Art Unit	~~1744~~ 1755
Examiner Name	WOOD
Attorney Docket Number	10118.00012

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	Document Number Number - Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	CW	US-5,522,893	6/4/96	Chow et al.	
		US- 5,238,491	8/24/93	Sugihara et al.	
		US- 5,525,148	6/11/96	Chow et al.	
		US- RE 33,221	5/22/90	Brown et al.	
		US- RE 33,161	2/6/90	Brown et al.	
		US- 5,336,264	8/9/94	Constantz et al.	
		US- 5,455,231	10/3/95	Constantz et al.	
		US- 5,496,399	3/5/96	Ison et al.	
		US- 5,542,973	8/6/96	Chow et al.	
		US- 5,545,254	8/13/96	Chow et al.	
		US- 5,556,687	9/17/96	McMillin	
		US- 5,652,056	7/29,97	Pepin	
		US- 5,695,729	12/9/97	Chow et al.	
		US- 5,721,049	2/24/98	Marcolongo et al.	
		US- 5,766,618	6/16/98	Laurencin et al.	
		US- 5,976,234	11/2/99	Chow et al.	
		US- 5,997,624	12/7/99	Chow et al.	
		US- 6,077,989	6/20/00	Kandel et al.	
		US- 6,136,029	10/24/00	Johnson et al.	
	CW	US- 6,207,098	3/27/01	Nakanishi et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] - Number[4] - Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
CW		Europe EP 0520 690 A2	12/1992			
*		~~Japan J6 2275-007-A~~	~~11/30/87~~			
*		~~Japan JPO 3193-615-A~~	~~8/23/91~~			

Examiner Signature	CWood	Date Considered	6/12/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

* no translation

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 of 13

Complete if Known	
Application Number	10/057,554
Filing Date	January 23, 2002
First Named Inventor	Laurence C. Chow
Group Art Unit	1714 1765
Examiner Name	WOOD
Attorney Docket Number	40118.00012

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	Document Number Number - Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
CW		US- 6,214,008	4/10/01	Illi	
		US- 6,281,256	8/28/01	Harris et al.	
		US- 6,281,257	8/28/01	Ma et al.	
		US- 6,287,341	9/11/01	Lee et al.	
CW		US- 6,325,992 B1	12/4/01	Chow et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] - Number[4] - Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
		~~Japan 64-29266~~	~~1/31/89~~			
		~~Japan 1-301543~~	~~12/5/89~~			
		~~Japan 3-183605~~	~~8/9/91~~			
		~~Japan 4-59611~~	~~2/26/92~~			

Examiner Signature	WOOD	Date Considered	5/12/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

* no translation

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 4 of 13

Complete if Known	
Application Number	10/057,554
Filing Date	January 23, 2002
First Named Inventor	Laurence C. Chow
Group Art Unit	~~1744~~ 1755
Examiner Name	WOOD
Attorney Docket Number	10118.00012

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
AW		Briner, et al., "Significance of Enamel Remineralization", J. Dent. Res. 53:239-243 (1974) ☆	
		Silverstone, "Remineralization Phenomena", Caries Res. 11 (Supp. 1): 59-84 (1977) ☆	
		Brown, "Solubilities of Phosphates and Other Sparingly Soluble Compounds, from Griffith, et al., Environmental Phosphorous Handbook (John Wiley & Sons, New York 1973) ☆	
		Miyazaki, et al., "An Infrared Spectroscopic Study of Cement Formation of Polymeric Calcium Phosphate Cement," Journal of Japanese Society for Dental Materials and Devices, Vol. II, No. 2, 1992 ☆ (1)	
AW		~~Brown~~, et al., "Crystallography of Tetracalcium Phosphate," J. Res. Nat. Bur. Stands. 69A: 547-551) (1965) ☆	
NOT LEGIBLE		~~Brown and Chow, "Singular Points in the Chemistry of Teeth," IADR Abstract No. 120, J. Dent. Res. 54: 74 (1975)~~	
AW		Driskell, et al., "Development of Ceramic and Ceramic Composite Devices for Maxillofacial Application", J. Biomed. Mat. Res. 6: 345-361 (1972) ☆	
		Gelhard et al, "Rehardening of Artificial Enamel Lesions in Vivo", Caries Res. 13: 80-83 (1979) ☆	
		Gregory, et. al., "Solubility of $CaHPO_4 2H_2O$ in the System $Ca(OH)_2$ -- H_3PO_4 _ H_2O at 5, 15, 25, and 37.5 ° C," J. Res. Nat. Bur. Stand. 74A: 461-475 (1970) ☆	
AW		Gregory, et al., "Solubility of -- $Ca_3(PO_4)_2$ in the System $Ca(OH)_2$--H_3PO_4--H_2O at 5, 15, 25 and 37°C," J. Res. Nat. Bur. Stand. 78A: 667-674 (1974) ☆	
NOT LEGIBLE		~~Hiatt, et al., "Root Preparation I. Obturation of Dentinal Tubules in Treatment of Root Hypersensitivity",~~ J. Periodontal 43: 373-380 (1972)	
AW		Levine, "Remineralization of Natural Carious Lesions of Enamel in vitro," Brit. Dent. J., 137: 132-134 (1974). ☆	
		McDowell, et al., "Solubility of -- $Ca_5(PO_4)_3$ in the System $Ca(OH)_2$ -- H_3PO_4 -- H_2O at 5, 15, 25 and 37°C," J. Res. Nat. Bur. Stand. 81A:273-281 (1977) ☆	
AW		McDowell, et al., "Solubility Study of Calcium Hydrogen Phosphate. Ion Pair Formation," Inorg. Chem. 10:1638-1643 (1971) ☆	

Examiner Signature	WOOD	Date Considered	5/12/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

(1) considered to extent of abstract.

☆ no month

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 5 of 13

Complete if Known	
Application Number	10/057,554
Filing Date	January 23, 2002
First Named Inventor	Laurence C. Chow
Group Art Unit	1714 1753
Examiner Name	WOOD
Attorney Docket Number	10118.00012

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
CHW		Moreno, et al., "Stability of Dicalcium Phosphate Dihydrate in Aqueous Solutions and Solubility of Octacalcium Phosphate," Soil Sci. Soc. Am. Proc. 21: 99-102 (1960) ☆	
		Patel, et al., "Solubility of $CaHPO_4$ $2H_2O$ in the Quaternary System $Ca(OH)_2$ -- H_3PO_4--NaCl--H_2O at 25°C," J. Res. Nat. Bur. Stands. 78A: 675-681 (1974) ☆	
		Pickel, et al. "The Effect of a Chewing Gum Containing Dicalcium Phosphate on Salivary Calcium and Phosphate", Ala. J. Med. Sci. 2: 286-287 NO DATE	
		Zimmerman, et. al., "The Effect of Remineralization Fluids on Carious Lesions in Vitro," IADR Abstract No. 282 (1979) ☆	
		Guide to Dental Materials and Devices, 7th Ed. (ADA 1974) pp. 49-64 ☆	
		Brown, et al., (1988): "A New Calcium Phosphate, Water Setting Cement," Cements Research Progress 1986, P.W. Brown, Ed., Westerville, Ohio: American Ceramic Society, pp. 352-379 ☆	
		Chohayeb, A.A., et al., ~~(1987)~~: Evaluation of Calcium Phosphate as a Root Canal Sealer-Filler Material, J. Endod 13, 384-386 (8-1987)	
		Hong, et al., (1989): The Periapical Tissue Reactions to a Calcium Phosphate Cement in the Teeth of Monkeys, J. Dent Res (submitted) ☆	
		Constantino, et al. (1989): Evaluation of a New Hydroxyapatite Cement: Cranioplasty in a Cat Model, The Fifth International Symposium on Facial Plastic Reconstructive Surgery of the Head and Neck, Toronto, Canada ☆	
		De Rijk, et al. (1986): Clinical Evaluation of an Hydroxyapatite Precipitate for the Treatment of Dentinal Hypersensitivity, Biomedical Engineering V. Recent Developments, Proc of 5th Southern Biomedical Engineering Conference, Subrata Saha, Ed., New York: Pergamon Press, pp. 336-339 ☆	
		Grunninger et al, (1984): Evaluation of the Biocompatibility of a New Calcium Phosphate Setting Cement, J. Dent Res., 63 (Special Issue) Abst. No. 270 ☆	
CHW		Hanker et. al, (1987): Calcium Phosphate Bindrs for Hydroxyapatite Particles for Bone Reapir, J. Dent Res. 66, Abst. No. 1144 ☆	
NOT LEGIBLE		~~Lu, et al, (1988): New Attachment Following the Use of a Novel Calcium Phosphate System, J. Dent Res~~ Res 67: 352, Abst. No. 1913	
NOT LEGIBLE		~~Schreiber, et. al., (1988): Remineralizaton of Root Caries Lesion by a Calcium Phosphate Slurry, J. Dent Res. 67, Abst. No. 255~~	

Examiner Signature	WOOD	Date Considered	5/12/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

☆ no month

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 6 of 13

Complete if Known	
Application Number	10/057,554
Filing Date	January 23, 2002
First Named Inventor	Laurence C. Chow
Group Art Unit	~~1714~~ 1755
Examiner Name	WOOD
Attorney Docket Number	10118.00012

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		Sugawara, et. al, (1987): A Calcium Phosphate Root Canal Sealer-Filler, J. Dent Res. 66: 296 Abst. No. 1516	
		Sugawara et al (1989): Formation of Hydroxyapatite in Hydrogels from Tetracalcium Phosphate/Dicalcium Phosphate Mixtures, Nihon Univ. Sch. Dent., Vol. 31, No. 1, 372-81, 1989	
		Block, et al. (1988): Correction of Vertical Orbital Dystopia with a Hydroxyapatite Orbital Floor Graft, J. Oral Maxillofac Surg 46: 420-425, 1988	
		Salyer, et al. (1989): Porous Hydroxyapatite as an Onlay Bone-Graft Substitute for Maxillofacial Surgery, Plas and Recon Surg 84, 2:236-244, 1989	
		Kenney, et al. (1988): The Use of a Porous Hydroxyapatite Implant in Periodontal Defects, J. Periodontal, pp. 67-72 Feb. 1988	
		Zide et al (1987): Hydroxyapatite Cranioplasty Directly Over Dura, J. Oral Maxillofac Surg 45:481-486, 1987	
		Waite, et al. (1986): Zygomatic Augmentation with Hydroxyapatite, J. Oral Maxillofac Surg 44:349-352, 1986	
		Verwoerd, et al. (1987): Porous Hydroxyapatite-perichondrium Graft in Cricoid Reconstruction, Acta Otolaryngol (Stockh) 1987; 103:496-502	
		Grote, (1984): Tympanoplasty With Calcium Phosphate, Arch Otolaryngology 110:197-199, 1984	
		Kent, et al. (1983): Alveolar Ridge Augmentation Using Nonresorbable Hydroxyapatite With or Without Autogenous Cancellous Bone, J. Oral Maxillofac Surg 41:629-642, 1983	
		Piecuch (1986): Augmentation of the Atrophic Edentulous Ridge with Porous Replamineform Hydroxyapatite (Interpore-200), Dental Clinics of North America 30, 2:291-305, 1986	
		Misch (1987): Maxillary Sinus Augmentation for Endosteal Implants: Organized Alternative Treatment Plans, Int J Oral Implant 4, 2:49-58, 1987	
		Chow, L.C., "Calcium Phosphate Materials: Reactor Response" Adv Dent Res 2(1): 191-184, August 1988	
		Fukase, et al., "Setting Reactions and Compressive Strengths of Calcium Phosphate Cements", J Dent Res 69(12):1852-1856, December 1990	

Examiner Signature	WOOD	Date Considered	5/12/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

*no month

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 7 of 13

Complete if Known	
Application Number	10/057,554
Filing Date	January 23, 2002
First Named Inventor	Laurence C. Chow
Group Art Unit	1714 1755
Examiner Name	W Doan
Attorney Docket Number	10118.00012

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	1	Chow, et al., "Self-Setting Calcium Phosphate Cements," Mat. Res. Soc. Symp. Proc. Vol. 179, 1991	
		Miyazaki, et al. "Chemical Change of Hardened PCA/CPC Cements in Various Storing Solutions," The Journal of the Japanese Soc. for Den. Mats. and Devices, Vol. 11, No. 2, 1992	
		Fukase et al, "Thermal Conductivity of Calcium Phosphate Cement," IADR Abstract, 1990	
		Sugawara, et al., "An In Vitro Study of Dentin Hypersensitivity Using Calcium Phosphate Cement," Jour of Jap. Soc. for Dent. Mats & Devices, Vol. 8, No. 2 1989	
		Constantino, et al., "Hydroxyapatite Cement -- Basic Chemistry and Histologic Properties," Arch. of Otolaryngology -- Head & Neck Surgery, Vol. 117, pp. 379-84 (Apr. 1991).	
		Freidman, et al., "Hydroxyapatite Cement -- Obliteration and Reconstruction of the Cat Frontal Sinus," Arch. of Otolaryngology -- Head & Neck Surgery, Vol. 117, pp. 385-89 (Apr. 1991).	
		Calcium Phosphate cements: action of setting regulators on the properties of the β-tricalcium phosphate-monocalcium phosphate cements	
		Mirtchi, et al., "Calcium phosphate cements: study of the β-tricalcium phosphate-monocalcium phosphate system," Biomaterials, Vol 10, pp. 475-80 (1989).	
		Mirtchi, et al., "Calcium phosphate cements: study of the β-tricalcium phosphate-dicalcium phosphate-calcite cements," Biomaterials, Vol 11, pp. 83-88 (1990).	
		Mirtchi, et al., "Calcium phosphate cements: effect of fluorides on the setting and hardening of β-tricalcium phosphate-dicalcium phosphate-calcite cements," Biomaterials, Vol 12, pp. 505-10 (1991).	
		Fulmer, et al. "Effects of Na_2HPO_4 and NaH_2PO_4 on Hydroxyapatite Formation," J. Biomed. Mat. Res., Vol. 27, pp. 1095-1102 (1993).	
		Ishikawa, et al., "The Hydrolysis of Anhydrous Dicalcium Phosphate into Hydroxyapatite," J. of Dent. Res., Vol. 72, No. 2, pp. 474-480 (Feb. 1993).	
		Sugawara, et al., "In Vitro Evaluation of the Sealing Ability of a Calcium Phosphate Cement When Used 5s a Root Canal Sealer-Filler," J. of Endodontics, Vol. 16, No. 4, pp. 162-165 (1990).	
		Shindo, et al., "Facial Skeletal Augmentation Using Hydroxyapatite Cement," Arch. of Otolaryngology -- Head & Neck Surgery, Vol. 119, pp. 185-90 (Feb. 1993).	

Examiner Signature	W Doan	Date Considered	5/12/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

(1) considered to extent of abstract
no month

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 8 of 13

Complete if Known	
Application Number	10/057,554
Filing Date	January 23, 2002
First Named Inventor	Laurence C. Chow
Group Art Unit	~~1714~~ 1733
Examiner Name	WDD
Attorney Docket Number	10118.00012

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
CW		Constantino, et al., "Experimental Hydroxyapatite Cement Cranioplasty," Plastic and Reconstructive Surgery, Vol. 90 No. 2, pp. 174-85 (Aug. 1992).	
		Sanin, et al., K. Ishikawa, S. Takagi, L.C. Chow and E.D. Eanes, "*Effects of Additives on Setting Reaction of Calcium Phosphate Cement,*" IADR Abstr. #666 J. Dent Res. 71 189 (1992).	
		Driessens, et al. (1993) "New Apatite Calcium Phosphate Bone Cement: Preliminary Results," in Bioceramics (Ducheyne & Christiansen, eds.) Butterworth-Heinemann Ltd., Vol. 6, pp. 469-473.	
		Miyazaki, et al., (1993) "Polymeric calcium phosphae cements: analysis of reaction products and properties," Dent.Mater. 9:41-45.	
		Miyazaki et al, (1993) "Polymeric calcium phosphate cements: setting reaction modifiers," Dent Mater. 9:46-50.	
		Chow et al., (1994) "Formulation of Hydroxyapatite in Cement Systems," in Hydroxyapatite and Related Materials (Brown & Constanz, eds.), CRC Press: Boca Raton, FL pp.127-137.	
		Constantz, et al., (1995) "Skeletal Repair by Situ Formation of the Mineral Phase of Bone," Science 267: 1796-1798.	
		Chow and Takagi, (1995) "Rate of Dissolution of Calcium Phosphate Cements," J. Dent. Res. 74:537 (IADR Abstract #1094).	
		Takagi and Chow, (1995) "Formation of Macropores in Calcium Phosphate Cement Implants," J. Dent. Res. 74:537 (IADR Abstract # 1272).	
		Horioglu, et al., (1995) "Composite Implant of Hydroxyapatite Cement/Osteogenic Protein-1 In Experimental Cranial Construction: Preliminary Results," Transactions of the 21st Annual Meeting for the Society for Biomaterials, San Francisco, CA, March 18-22, p. 72.	
		Driessens, et al., (1995) "Effective formulations for the preparation of calcium phosphate bone cements," J. Mater.Sci.:Mater.Med. 5:164-170.	
		Fernandez, et al., (1994) "Common Ion Effect on some Calcium Phosphate Cements," Clinial Mater.16:99-103.	
		Matsuya, et al., (1994) "Formation of Hydroxyapatite in a Polymeric Calcium Phosphate Cement, Proc. Int. Conf. Comp. Eng.	
CW		Bermudez, et al., Optimization of Calcium Orthophosphae Cement formulation occurring in the combination of monocalcium phosphate monohydrate with calcium oxide, J. Mater.SciMater Med 5:67-71 (1994)	

Examiner Signature	WDD	Date Considered	5/12/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 9 of 13

Complete if Known	
Application Number	10/057,554
Filing Date	January 23, 2002
First Named Inventor	Laurence C. Chow
Group Art Unit	1714 1755
Examiner Name	Wood
Attorney Docket Number	10118.00012

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
CLW		Dickens-Venz, et. al., (1994) "Physical and chemical properties of resin-reinforced calcium phosphate cements," Dent.Mater.10:100-106. ☆	
		LeGeros, et al., "Apatitic Calcium Phosphates: Possible Dental Restorative Materials", IADR Abstract No 1482 J. Dent Res. (1982). ☆	
		"NASA and Dentistry" (1977) ☆	
		Chow, "Development of Self-Setting Calcium Phosphate Cements," Journal of the Ceramic Society of Japan 99[10] 954-964 (1991) ☆	
		Sugawara, et al., "Biocompatibility and Osteoconductivity of Calcium Phosphate Cement" IADR Abstract (1990) ☆	
		Miyazaki et al., "Polymeric Calcium Phosphate Cements", IADR Abstract (1990). ☆	
		Sugawara et al., "Histopathological Reactions of a Calcium Phosphate Cement Root Canal Filler", IADR Abstract (1991). ☆	
		Sanin et al., "Particle Size Effects on pH and Strength of Calcium Phosphate Cement", IADR Abstract (1991). ☆	
		Link et al., "Composite of Calcium Phosphate Cement and Genetically Engineered Protein Bioadhesive", IADR Abstract (1991). ☆	
		Matsuya et al., "Effects of pH on the Reactions of Tetracalcium Phosphate and Dicalcium Phosphate", IADR Abstract (1991). ☆	
		Chow et al., "X-ray Diffraction and Electron Microscopic Characterization of Calcium Phosphate Cement Setting Reactions", IADR Abstract (1987). ☆	
		Sugawara et al., "An In Vitro Study of Dentin Hypersensitivity Using Calcium Phosphate Cement", Jour of Jap. Soc. For Dent. Mats & Devices, Vol. 8, No. 2 (1989) ☆ (1)	
		Mirtchi et al., "Calcium Phosphate Cements: Action of Setting Regulars on the Properties of the β-tricalcium Phosphate-Monocalcium Phosphate Cements" Biomaterials, Vol. 10, pp. 634-38 (1989).	
CLW		Cherng et al., (1995) "Effects of Gelling Agents on Calcium Phosphate Cements, J. Dent. Res. 74:242 (IADR Abstract, No. 1845).	

Examiner Signature	Wood	Date Considered	5/12/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

☆ no month

(1) considered to extent of abstract

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 10 of 13

Complete if Known	
Application Number	10/057,554
Filing Date	January 23, 2002
First Named Inventor	Laurence C. Chow
Group Art Unit	~~1714~~ 1755
Examiner Name	WOOD
Attorney Docket Number	10118.00012

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
chw		Horioglu et al., (1995), "Long-Term Follow-Up of Hydroxyapatite Cement (HAC) Implant for Craniofacial Construction", Transactions of the 21st Annual Meeting for the Society of Biomaterials, San Francisco, CA, March 18-22, Page 198. ☆	
chw		Fujikawa et al., (1995), "Histopathological Reaction of Calcium Phosphate Cement in Periodontal Bone Defect", Dent. Mater. J. 10:45-57. ☆	
chw		Sugawara et al., (1995) "Histopathological Reaction of Calcium Phosphate Cement Root Canal Filler", J. Hard Tissue Biology, 4:1-7. ☆	
		~~Costantino et al. (1989): Evaluation of a New Hydroxyapatite Cement: Basic Chemistry and Histology, The Fifth International Symposium on Facial Plastic Reconstructive Surgery of the Head and Neck, Toronto, Canada.~~	
		~~Friedman et al. (1989): Evaluation of a New Hydroxyapatite Cement: Obliteration and Reconstruction of the Cat Frontal Sinus, The Fifth International Symposium on Facial Plastic Reconstructive Surgery of the Head and Neck, Toronto, Canada.~~	
		~~Grozier, "New Cement Makes Medical History," ADA News, January 4, 1993, Vol. 24, No. 1.~~	
chw		Shors et al., "Porous Hydroxyapatite", An Introduction to Bioceramics, pp. 181-198. NO DATE	
		Fukase et al., "Setting Reactions and Compressive Strengths of Calcium Phosphate Cements", J Dent Res 69 (12): 1852, December, (1990) ☆	
		Matsuya et al., "Effect of Fluoride on Apatite Formation From $Ca_4(PO_4)_2O$ in 0.1 mol L^{-1} KH_2PO_4, J Mat Sci: Materials in Medicine 9 (1998) pp. 325-331. ☆	
		Chang et al., "Osteoconduction at Porous Hydroxyapatite with Various Pore Configurations", Biomaterials 21 (2000) 1291-1298. ☆	
		Chow et al., "Calcium Phosphate Cements", Cements Research Progress, (1999) pp. 215-238. ☆	
		Xu et al., "Calcium Phosphate Cement Containing Resorbable Fibers for Short-Term Reinforcement and Macroporosity", Biomaterials 0 (2001) 1-10. ☆	
		Xu et al., "Strong and Macroporous Calcium Phosphate Cement: Effects of Porosity and Fiber Reinforcemen on Mechanical Properties", Macroporous Calcium Phosphate Cement, pp. 1-10. ☆	
chw		Chow, "Calcium Phosphate Cements: Chemistry, Properties and Applications", Mat. Res. Soc. Symp. Proc., Vol. 599 (2000) ☆	

Examiner Signature	WOOD	Date Considered	5/12/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

☆ no month available

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 11 of 13

Complete if Known	
Application Number	10/057,554
Filing Date	January 23, 2002
First Named Inventor	Laurence C. Chow
Group Art Unit	1714 / 1758
Examiner Name	WCSD
Attorney Docket Number	10118.00012

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
CW		Takagi et al., Formation of Macropores in Calcium Phosphate Cement Implants", J. Mat. Sci: Materials in Medicine, 12 (2001) 135-139. ☆	
		Von Gonten et al., "Load-Bearing Behavior of a Simulated Craniofacial Structure Fabricated From a Hydroxyapatite Cement and Bioresorbable Fiber-Mesh" J. Mater. Sci.: Materials in Medicine, 11 (2000) 95-100. ☆	
		Xu et al., "Effects of Fiber Length and Volume Fraction on the Reinforcement of Calcium Phosphate Cement", J. Mater. Sci: Materials in Medicine, 12 (2001) 57-65. ☆	
		Xu et al., "Reinforcement of a Self-Setting Calcium Phosphate Cement with Different Fibers", Journal of Biomedical Materials Research, October 2000, Vol. 51, No. 1, pp. 107-114.	
		Suchanek et al., "Processing and Properties of Hydroxyapatite-Based Biomaterials for use as Hard Tissue Replacement Implants", J. Mater. Res., Vol. 13, No. 1, January 1998, pp. 94-117.	
		Simske, et al., "Porous Materials for Bone Engineering", Materials Science Forum, Vol. 250 (1997) pp. 151-182. ☆	
		LeGeros, "Biodegradation and Bioresorption of Calcium Phosphate Ceramics", Clinical Materials, 14 (1993) pp. 65-88. ☆	
		Friedman et al., "BoneSource Hydroxyapatite Cement: A Novel Biomaterial for Craniofacial Skeletal Tissue Engineering and Reconstruction", Hac For Tissue Engineering and Reconstruction, pp. 428-432. ~~(2000)~~ NO DATE	
		Takagi et al., "Morphological and Phase Characterizations of Retrieved Calcium Phosphate Cement Implants", ~~(2000)~~ pp. 36-41. (2001) ☆	
		Ishikawa et al., "Reaction of Calcium Phosphate Cements With Different Amounts of Tetracalcium Phosphate and Dicalcium Phosphate Anhydrous", CPC With Different TTCP/DCPA Molar Ratios, pp. 504-510. (1999) ☆	
		Miyamoto et al., "Histological and Compositional Evaluations of Three Types of Calcium Phosphate Cements When Implanting in Subcutaneous Tissue Immediately After Mixing", Three CPCs in Soft Tissue, 1999, pp. 36-42. (1999) ☆	
		Constantz et al., "Histological, Chemical, and Crystallographic Analysis of Four Calcium Phosphate Cements in Different Rabbit Osseous Sites", Calcium Phosphate Cements, 1998, pp. 451-461. (1998) ☆	
		Ginebra et al., "Setting Reaction and Hardening of an Apatitic Calcium Phosphate Cement", J. Dent. Res., 76 (4): 905-912, April 1997.	
CW		English Translation, Japanese Examiner's Citation to References, February 2, 1999.	

Examiner Signature	WCSD	Date Considered	5/12/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

☆ no month

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 12 of 13

Complete if Known	
Application Number	10/057,554
Filing Date	January 23, 2002
First Named Inventor	Laurence C. Chow
Group Art Unit	~~1714~~ 1755
Examiner Name	WOOD
Attorney Docket Number	10118.00012

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
CW		Australian Examiner's Citation to References, September 20, 1996.	
		Blumenthal, et al., "Effect of Preparation Conditions on the Properties and Transformation of Amorphous Calcium Phosphate", Mat. Res. Bull. 7:1181-1190 (1972). ☆	
		Aboba, "X-Ray Diffraction Study on the Amorphous and Crystalline Components in Bone Mineral", Chem Abstracts, Vol. 91, No. 13 Abstract No. 105935r, (1979). ☆	
		Aboba et al., "Small Angle X-Ray Scattering Study on the Transformation of Amorphous Calcium Phosphate to Crystalline Apatite," Chem. Abstracts, Vol. 91, No. 13, Abstract No. 105934q (1979). ☆	
		Tung et al., "Hydrolysis of Dicalcium Phosphate Dihydrate in the Presence or Absence of Calcium Fluoride", Basic Biological Sciences" Dent. J. Res. 64(1):2-5 Jan. 1985.	
		Tung et al., "An Intermediate State in Hydrolysis of Amorphous Calcium Phosphate", Calcified Tissue International, 783-790 (1983). ☆	
		Tung, et al., "The Effects of Calcium Phosphate Solutions on Permeability of Dentin" J. Dent. Res., 6[illegible] Abstract No. 167 (1986). ☆	
		Tung et al., "Effects of Calcium Phosphate Solutions on Dentin Permeability", Vol. 19, No. 8 J o[illegible] Endodontic (1983). ☆	
		Trautz, "Crystallographic Studies of Calcium Carbonate phosphate" Annals of the N.Y. Acad. Sci. 35 Article 1: 145-160 (1960). ☆	
		Termine et al., " Calcium Phosphate in vitro", Chem. Abstracts, Vol. 73, Abstract No. 126985a, (1970) ☆	
		Yasue et al, "Synthesis and Characteristics of Amorphous Calcium Carbonate in Ethanol", Fac. Sci Eng. Nihon Univ. Gypsum Lime (1985) 198 245-52 Japan. ☆	
		Bowen et al., "Development of an Adhesive Bonding System", Operative Dentistry, Supplement 5 (1992), pp 75-80. ☆	
		Yu et al., "Self-Setting Hydroxyapatite Cement: A Novel Skeletal Drug-Delivery System for Antibiotic", J Pharm. Sci., Vol. 81, No. 6, June 1992, pp. 529-531.	
CW		de Groot, "Ceramics of Calcium Phosphates: Preparation and Properties", Bioceramics of Calcium Phosphate, pp. 99-114. NO DATE	

Examiner Signature	WOOD	Date Considered	5/12/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

☆ no month

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 13 of 13

Complete if Known	
Application Number	10/057,554
Filing Date	January 23, 2002
First Named Inventor	Laurence C. Chow
Group Art Unit	1714 1755
Examiner Name	(illegible)
Attorney Docket Number	10118.00012

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
(illegible)		Posner et al. "Synthetic Amorphous Calcium Phosphate and its Relation to Bone Mineral Structure" Accounts of Chemical Research, 8, 273 (1975). ☆	

Examiner Signature	(signature)	Date Considered	5/12/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

☆ no month

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	10/057,554
Filing Date	January 23, 2002
First Named Inventor	Laurence C. Chow
Group Art Unit	~~1714~~ 1755
Examiner Name	WOOD
Attorney Docket Number	10118.00012

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
CCW		Zimmerman et al., "The Effect of Remineralization Fluids on Carious Lesions in Vitro", IADR Abstract No. 282 (1979). ★	

Examiner Signature	WOOD	Date Considered	5/12/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

★ no month